



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,225	09/18/2003	Arihiro Takeda	1117.68336	6264
7590	12/01/2004		EXAMINER	
Patrick G. Burns, Esq. GREER, BURNS & CRAIN, LTD. Suite 2500 300 South Wacker Drive Chicago, IL 60606			DUONG, THOI V	
			ART UNIT	PAPER NUMBER
			2871	
DATE MAILED: 12/01/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/665,225	TAKEDA ET AL.
	Examiner	Art Unit
	Thoi V Duong	2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 02 September 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 13-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 13-16 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. 10/047,216.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>0504</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____

DETAILED ACTION

1. This office action is in response to the Amendment filed September 02, 2004.

Accordingly, claims 1-12 and 17-33 were cancelled. Currently, claims 13-16 are pending in this application.

Inventorship

2. In view of the papers filed September 02, 2004, the inventorship in this nonprovisional application has been changed by the deletion of Arihiro Takeda, Shingo Kataoka, Tsuyoshi Kamada, and Kazuya Ueda. The sole inventor in the application is Takahiro Sasaki.

The application will be forwarded to the Office of Initial Patent Examination (OIPE) for issuance of a corrected filing receipt, and correction of Office records to reflect the inventorship as corrected.

Response to Arguments

3. Applicant's arguments with respect to the rejection(s) of claim(s) 13-16 under Takeda et al. have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of USPN 6,710,837 B1 of Song et al..

Claim Objections

4. Claim 16 is objected to because of the following informalities: claim 16 recites the limitation "said liquid crystal molecules" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 13-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Song et al. (USPN 6,710,837).

Re claim 13, as shown in Figs. 5 and 8A, Song et al. discloses a liquid crystal display device comprising:

a first substrate 10 having thereon a pixel electrode 200 and an active element (see Abstract);

a second substrate 20 having thereon an opposed electrode (col. 7, lines 29-33); and

a liquid crystal layer having liquid crystal molecules 30 interposed between said first and second substrates with said electrodes facing each other,

wherein a first orientation control element 270 extending in a nonparallel direction relative to an extending direction of an edge of said pixel electrode (vertical edge of the pixel electrode 200 in Fig. 8A) and a second orientation control element 171 (extension of control element 170) extending in a parallel direction relative to an extending direction of said edge are provided on at least one of said first and second substrates, and

said first orientation control element is larger in width than said second orientation control element as shown in Figs. 19D and 19E where the second orientation control element has a width from 0.3 to 3 micron, and as shown in Fig. 20C where the first orientation control element has a width from 3 to 20 micron (col. 11, lines 58-62 and col. 12, lines 6-10),

wherein, re claim 14, said first orientation control element 270 is a slit (aperture pattern) formed in said pixel electrode 200 (col. 7, lines 46-55);

wherein, re claim 15, said second orientation control element is a protrusion formed on said opposed electrode (col. 7, lines 46-55); and

wherein, re claim 16, a dielectric anisotropy of said liquid crystal molecules 30 of said liquid crystal layer is negative (col. 7, lines 5-9).

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thoi V. Duong whose telephone number is (571) 272-2292. The examiner can normally be reached on Monday-Friday from 8:30 am to 4:30 pm.

Art Unit: 2871

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim, can be reached at (571) 272-2293.

Thoi Duong

11/22/2004



A handwritten signature in black ink, appearing to read "Tarifur R. Chowdhury".

TARIFUR R. CHOWDHURY
PRIMARY EXAMINER